

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Previously Amended) A barley plant or a portion of said plant, comprising mutated LOX-1 protein lacking all or a portion of the C-terminal LOX-1 enzymatic domain corresponding to amino acids 520 to 862 of wild type barley LOX-1 (SEQ ID NO: 3 or 7), wherein said plant exhibits null LOX-1 activity.
- 2-49. (Cancelled)
50. (Previously Presented) The barley plant or portion according to claim 1, wherein said mutated LOX-1 protein is truncated at or between amino acids 378 and 665 of wild-type barley LOX-1.
51. (Previously Presented) The barley plant or portion according to claim 1, wherein said mutated LOX-1 protein consists essentially of amino acids 1-378 of wild-type barley LOX-1 (SEQ ID NO: 3 or 7).
52. (Previously Presented) The barley plant or portion according to claim 1, wherein said mutated LOX-1 protein has the amino acid sequence of SEQ ID NO: 4 or 8.
53. (Previously Presented) The barley plant or portion according to claim 1, wherein said mutated LOX-1 protein is encoded by a gene that comprises a premature stop codon at or between nucleotides 2311 and 3574 of wild-type genomic barley lox-1 (SEQ ID NO: 1 or 5).
54. (Previously Presented) The barley plant or portion according to claim 1, wherein said mutated LOX-1 protein is encoded by a gene that comprises a stop codon at nucleotides 3572-3574 of wild-type genomic barley lox-1 (SEQ ID NO: 1 or 5).

55. (Previously Presented) The barley plant or portion according to claim 1, wherein said mutated LOX-1 protein is encoded by a gene that comprises the nucleic acid sequence of SEQ ID NO: 2 or 6.
56. (Previously Presented) The barley plant or portion according to claim 1, wherein said plant has ATCC accession No. PTA-5847 or PTA-5584, or is a progeny plant thereof.
57. (Previously Presented) The barley plant or portion according to claim 1, wherein said portion comprises a kernel.
58. (Previously Presented) The barley plant or portion according to claim 1, wherein said portion comprises an embryo.
59. (Previously Presented) The barley plant or portion according to claim 1, wherein said LOX-1 activity is determined in homogenized embryo tissue of M3 or M4 plant kernels.
60. (Previously Presented) A method for selecting mutant barley plants having null LOX-1 activity, comprising:
- a. breeding mutagenized barley plants or tissue obtained therefrom to produce generation M_x barley plants, where x is at least 2; and
 - b. selecting plants having null LOX-1 activity in kernel tissue of said generation M_x plants.
61. (Previously Presented) The method of claim 60, wherein said selecting is of generation M3 or M4 plants.
62. (Withdrawn) A **malt** composition comprising malted kernels of the plant of claim 1.
63. (Withdrawn) A **malt** composition comprising malted kernels of the plant of claim 54.

- 64. (Withdrawn) A **wort** composition comprising malted and mashed kernels of a plant of claim 1.
- 65. (Withdrawn) A **beverage** prepared from the plant or plant portion of claim 1, wherein the plant or portion is malted or unmalted.
- 66. (Withdrawn) A **beverage** prepared from the plant or plant portion of claim 54, wherein the plant or portion is malted or unmalted.
- 67. (Withdrawn) A **beverage** prepared from the plant or plant portion of claim 1, wherein the beverage is non-fermented or fermented.
- 68. (Withdrawn) A **beverage** prepared from the plant or plant portion of claim 1, wherein the beverage contains 9, 12, 13-trihydroxyoctadecanoic acid and 9, 10, 13-trihydroxyoctadecanoic acid in a ratio of no more than 1.8.
- 69. (Withdrawn) **Beer** prepared from the plant or plant portion of claim 1.
- 70. (Withdrawn) **Beer** prepared from the plant or plant portion of claim 54.
- 71. (Withdrawn) **Beer** prepared from kernels of the plant of claim 1.
- 72. (Withdrawn) **Beer** prepared from grain of the plant of claim 1.
- 73. (Withdrawn) **Beer** prepared from malted grain of the plant of claim 1.
- 74. (Withdrawn) **Beer** prepared from mashed malted grain of the plant of claim 1.